

THIS PROJECT INVOLVES THE INSTALLATION OF A NEW TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF US 40 AND CHESAPEAKE BOULEVARD IN CECEIL COUNTY.

US 40 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

### INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA THREE-PHASE, FULL-TRAFFIC-ACTUATED MODE.

### CONTROLLER REQUIREMENTS

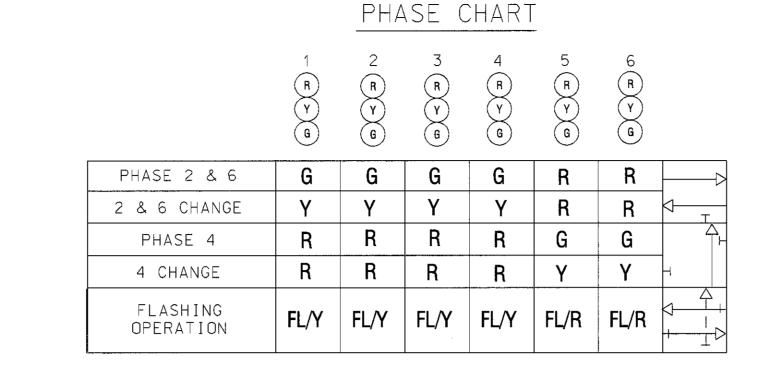
INSTALL A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH (1) FOUR-CHANNEL, TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIER AND ONE VIDEO DETECTION CAMERA HOUSED IN A NEMA "6" BASE MOUNTED CABINET, THIS INTERSECTION WILL BE INTERCONNECTED TO THE EXISTING TRAFFIC SIGNAL AT US 40 AND MD 781.

# SPECIAL NOTE

UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF THE MSHA AT (410) 787-7635 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR MUST PROVIDE MR. SYNDER WITH THE NEAREST ADDRESS, ZIP CODE, AND PHONE NUMBER.

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— A.B.C.D.E.F.G.H.I.M.N.O



# EQUIPMENT LIST "A"

A. APPROVED SHA EQUIPMENT TO BE PURCHASED BY THE DEVELOPER AND INSTALLED BY THE CONTRACTOR. ALL EQUIPMENT IN THIS LIST SHALL HAVE CATALOG CUTS SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION.

NONE QUANTITY DESCRIPTION

### CONTACT PERSONS FOR DISTRICT 2 ARE AS FOLLOWS:

MR. ROBERT KIEL
ASSISTANT DISTRICT ENGINEER - TRAFFIC
(410) 778-3061

MR. TERRY WRIGHT
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
(410) 778-3061

MR. BARRY CLOTHIER
ASSISTANT DISTRICT ENGINEER - UTILITIES
(410) 778-3061

### CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR. CHIEF, TRAFFIC OPERATIONS (410) 787-7630

MR. EUGENE BAILEY TEAM LEADER SIGN OPERATIONS (410) 787-7676

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF,
TRAFFIC OPERATIONS
(410) 787-7631

MS. DARLENE EIDE SUPPLY OFFICE SIGNAL SHOP WAREHOUSE

MR. ED RODENHIZER
TEAM LEADER SIGNAL OPERATIONS
(410) 787-7652

(410) 787-7668

CURB & GUTTER
INSTALLATION
DETAIL

EXTEND.CAG.10'
AND NOSE DOWN

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TO' PROME EXISTING
TO' PROME EXISTING
TO' PROME EXISTING
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INSTALL HOT
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## EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO OOTS FOR APPROVAL PRIOR TO INSTALLATION.

ITEM NO.	QUANTITY	DESCRIPTION		
1001	1 EA	MAINTENANCE OF TRAFFIC		
2002	3 EA	TEST PIT EXCAVATION		
5005	85 LF	FURNISH AND INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT		
8001	1 EA	FURNISH AND INSTALL 250 FT. VIDEO CABLE TO CONTROLLER		
8006	1 EA	CUT, CLEAN, AND CAP TRAFFIC SIGNAL STRUCTURE		
8011	18 EA	FURNISH AND INSTALL 12 IN. VEHICULAR SIGNAL HEAD SECTION		
8013	2 EA	FURNISH AND INSTALL 15 FT. STREET LIGHTING ARM FOR SIGNAL POLE		
8014	2 EA	FURNISH AND INSTALL 250 WATT HPSV LUMINAIRE		
8020	1 EA	FURNISH AND INSTALL CONTROL AND DISTRIBUTION EQUIPMENT		
	1 EA	FOR SIGNAL		
8035	1 EA	* FURNISH AND INSTALL 50 FT./70 FT. TWIN MAST ARMS AND POLE		
8035	1 EA	FURNISH AND INSTALL 50 FT./70 FT. TWIN MAST ARMS AND POLE		
8043	4 EA	FURNISH AND INSTALL NON INVASIVE PROBE WITH 1000 FT. Lead—In		
8049	1 EA	FURNISH AND INSTALL VIDEO DETECTION CAMERA		
8050	1 EA	FURNISH AND INSTALL VIDEO INTERFACE EQUIPMENT		
8052	240 LF	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC conduit — bored		
8053	500 LF	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT — TRENCHED		
8057	12 CY	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION		
8058	218 LF	FURNISH AND INSTALL 4 IN. X 4 IN. WOOD SUPPORT		
8059	240 LF	FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER WIRE		
8064	60 LF	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT — BORED		
8070	50 LF	FURNISH AND INSTALL ELECTRICAL CABLE 1-CONDUCTOR NO.4 AWG		
8072	11 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE		
8076	800 LF	FURNISH AND INSTALL 12-PAIR COMMUNICATION CABLE UNDERGROUND		
8080	3 EA	FURNISH AND INSTALL GROUND ROD <sup>3</sup> /4 IN. DIAMETER X 10 FT. Length		
8084	70 LF	FURNISH AND INSTALL ELECTRICAL CABLE 5-CONDUCTOR		
		NO. 14 AWG		
8085	810 LF	FURNISH AND INSTALL ELECTRICAL CABLE 7—CONDUCTOR NO. 14 AWG		
8086	460 LF	FURNISH AND INSTALL ELECTRICAL CABLE 2—CONDUCTOR		
8086	430 LF	NO. 12 AWG		
8088	40 LF	FURNISH AND INSTALL SAW CUT FOR LOOP DETECTOR		
8051	410 LF	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT — TRENCHED		
8093	1 EA	FURNISH AND INSTALL CONTROLLER AND CABINET BASE MOUNT		
	1 EA	FURNISH AND INSTALL 4-CHANNEL, TIME-DELAY-OUTPUT, LOOP DETECTOR AMPLIFIER		
	2 EA	FURNISH AND INSTALL D3-1 SINGLE FACED SIGN "CHESAPEAKE BLVD" (VAR. X 16") MAST ARM MOUNT		
	1 EA	FURNISH AND INSTALL M95-1 SIGN (72" X 24") MAST ARM MOUNT		
	5 EA	FURNISH AND INSTALL W3—3 SIGN (48" X 48") WITH "NEW" Panel (30" X 30") and flags — Ground Mount		
	1 EA	FURNISH AND INSTALL R3-1 SIGN (30" X 30") MAST ARM MOUNT		
	250 SF	FURNISH AND INSTALL HOT MIX ASPHALT		
6002	140 LF	FURNISH AND INSTALL STANDARD TYPE 'A' COMBINATION CURB AND GUTTER		

\* THE 70 FT, MAST ARM FOR THE SOUTHBOUND TRAFFIC ON KIRSTEN COURT WILL BE FURNISHED AND INSTALLED BY OTHERS, INSTALL FLANGE PLATE COVER,

# EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

NONE

ITEM NO.

QUANTITY

DESCRIPTION

ALL SIGNAL EQUIPMENT TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION
US 40 AT CHESAPEAKE BOULEVARD

DRAWN BY: _	M.HOWELL	_ F.A.P. NO.	N/A	TS NO.	
CHECKED BY:_	T.ZAYDEL	_ S.H.A. NO.	B/W	4319 GI	SHEET NO.
SCALE:	NONE	COUNTY	CECIL	T.I.M.S. NO.	
DATE:	3-18-04	LOG MILE:	07004017.17	G 334	2 OF 2

WIRING KEY

D-G MICRO-LOOP PROBE

(NO. 12 A.W.G.)

(NO. 14 A.W.G.)

(NO. 14 A.W.G.)

ML MICRO-LOOP PROBE

FAX (410) 923-6473

12-PAIR COMMUNICATION CABLE, JELLY FILLED

WIRE (NO. 6 A.W.G.)

VIDEO DETECTION 250 FT. PREMANUFACTURED CABLE

H-I 2 CONDUCTOR ELECTRICAL CABLE

J-L 5 CONDUCTOR ELECTRICAL CABLE

M-O 7 CONDUCTOR ELECTRICAL CABLE

PS PROPOSED UNDERGROUND ELECTRIC SERVICE

TRAFFIC CONCEPTS INC.

325 Gambrills Road

Gambrills, MD 21054

(410) 923–7101

EMAIL TRACONCEPT@AOL.COM

Suite E

STRANDED BARE COPPER GROUND